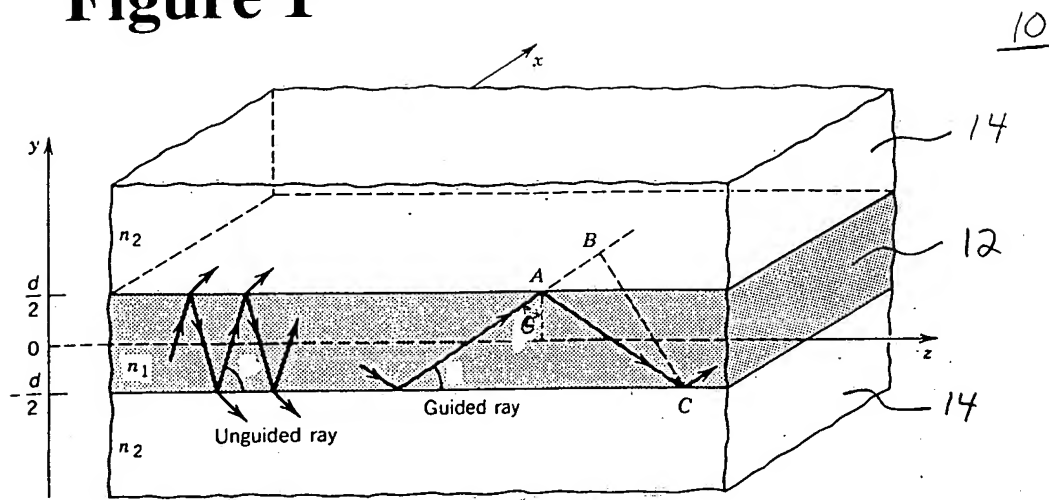


Figure 1



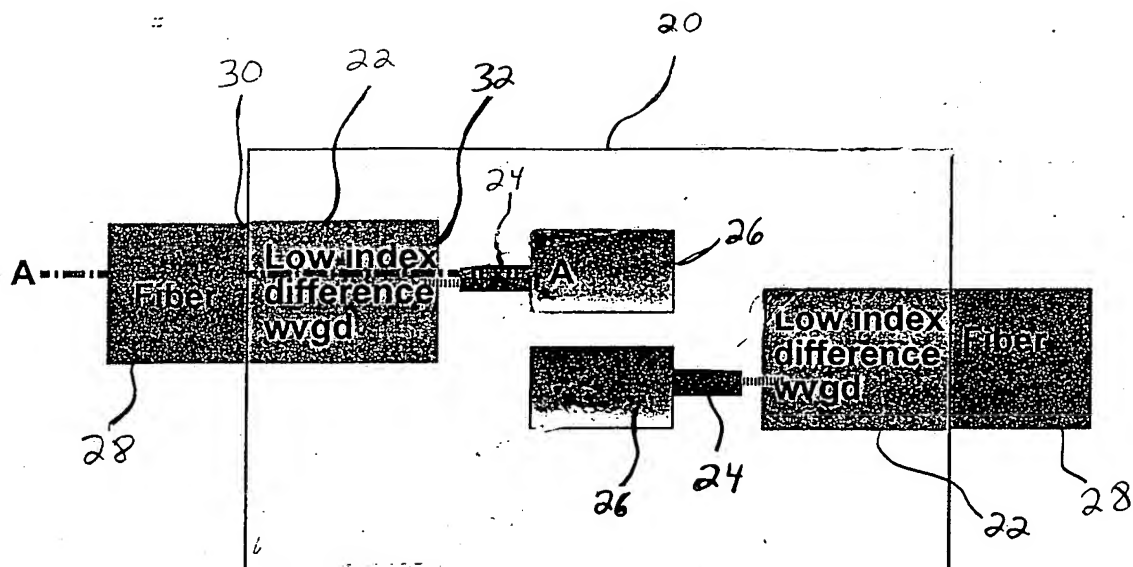


Figure 2

Figure 3

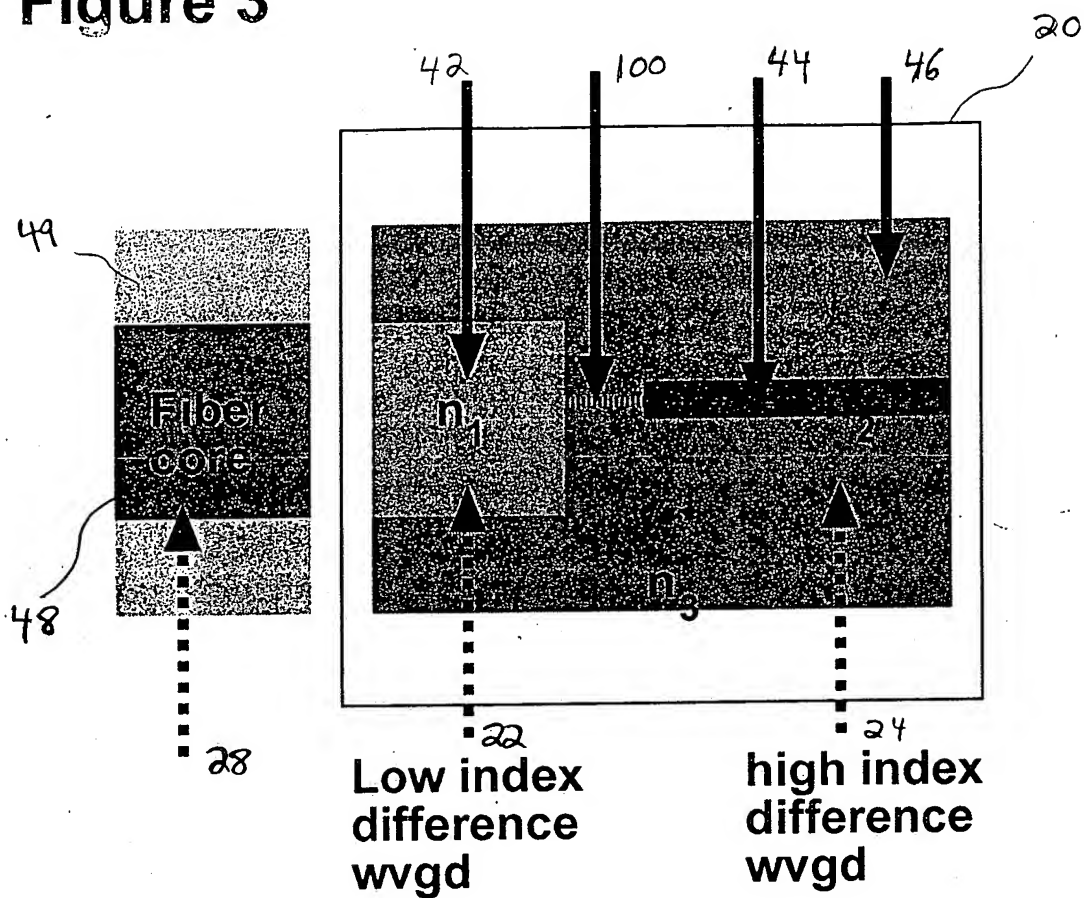
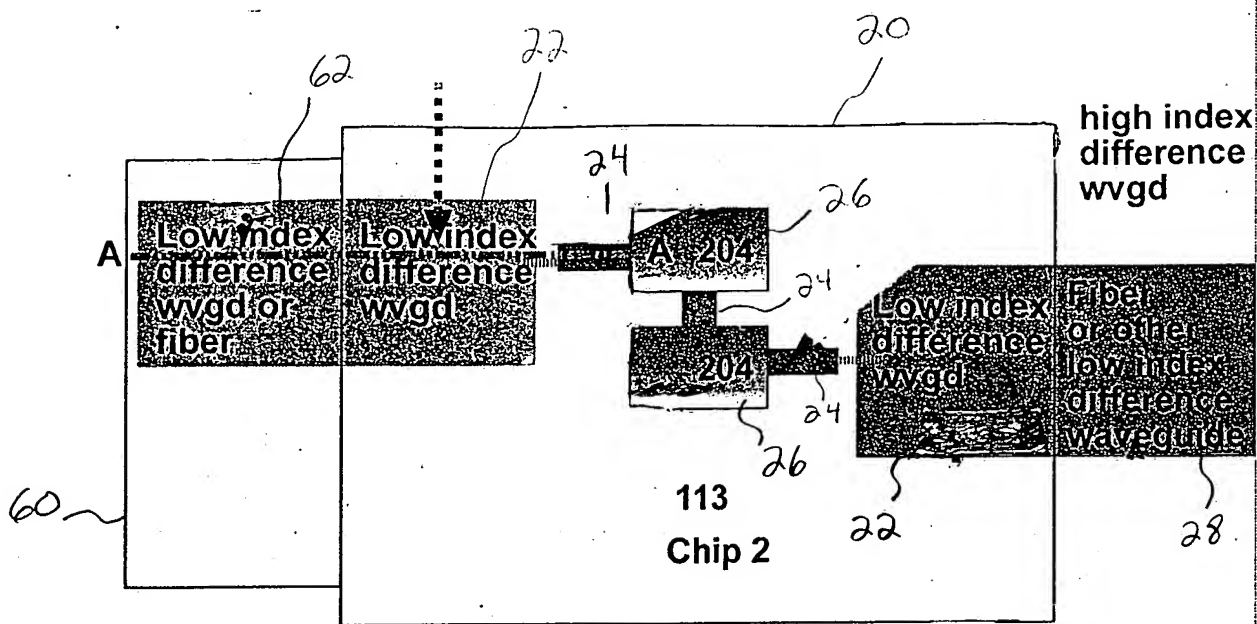
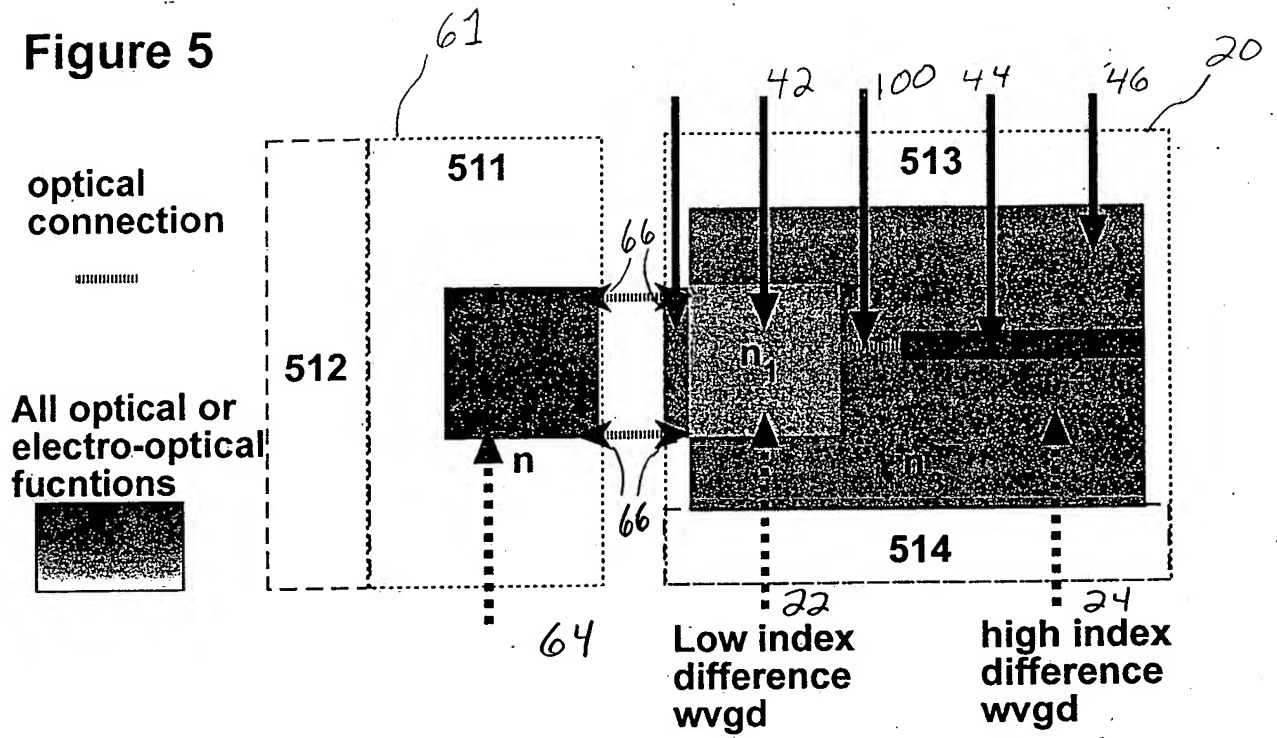


Figure 4



205070-968E+007

Figure 5



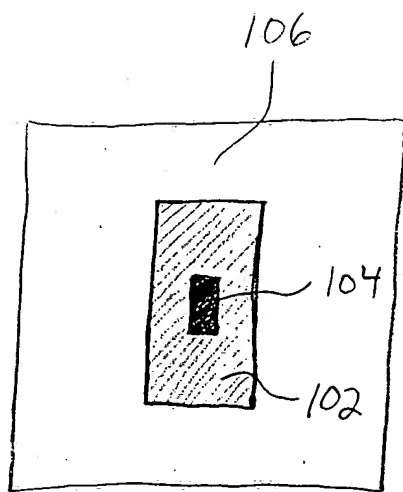


Figure 8

20060707 96854007

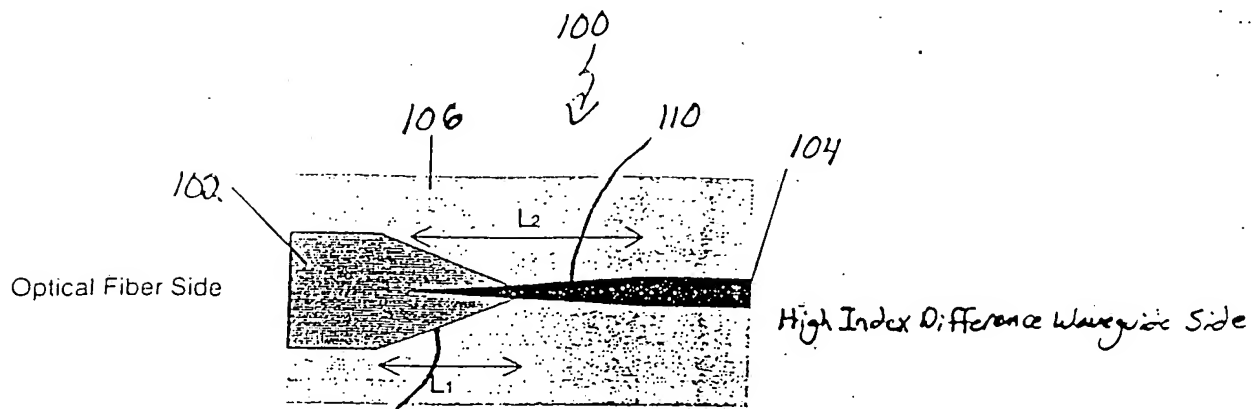


Figure 6

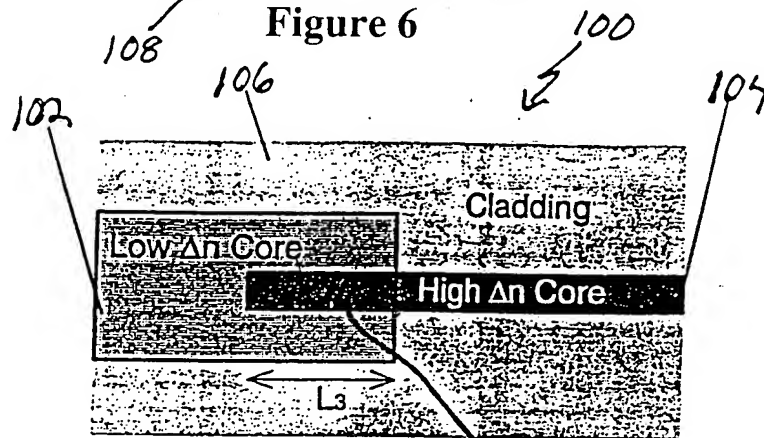


Figure 7

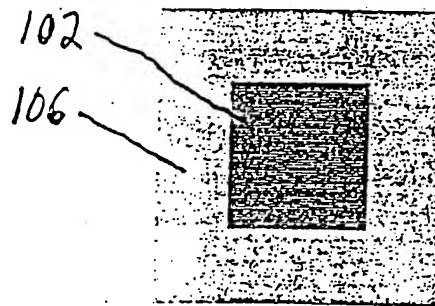


Figure 9

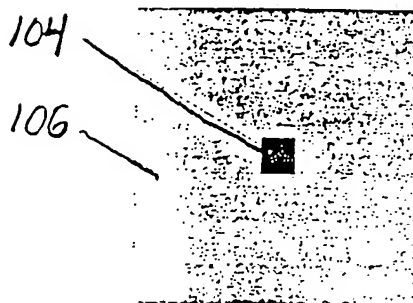


Figure 10

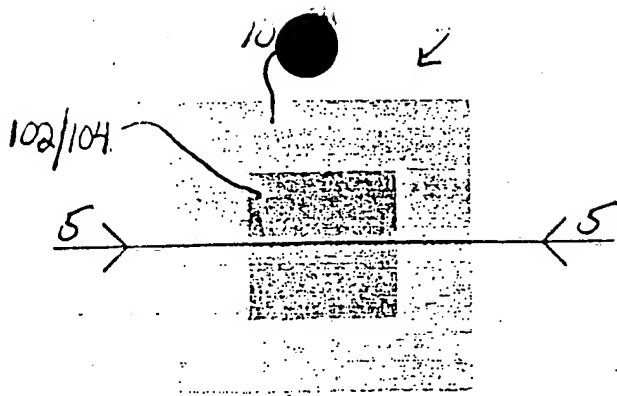


Figure 11A

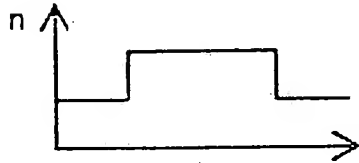


Figure 11B

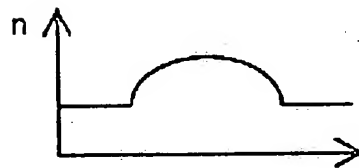


Figure 11C

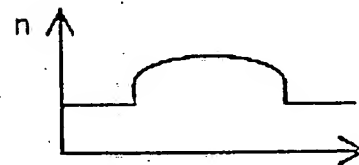


Figure 11D



Figure 11E

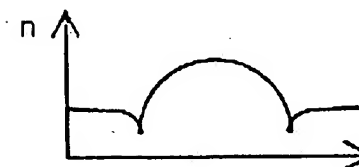


Figure 11F



Figure 11G



Figure 11H

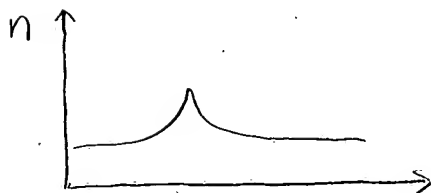


Figure 11I

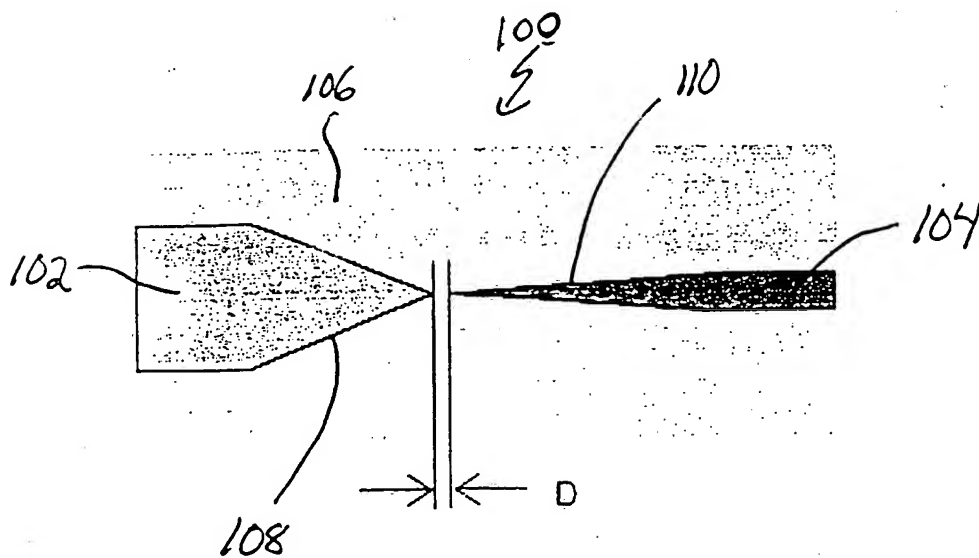


Figure 12

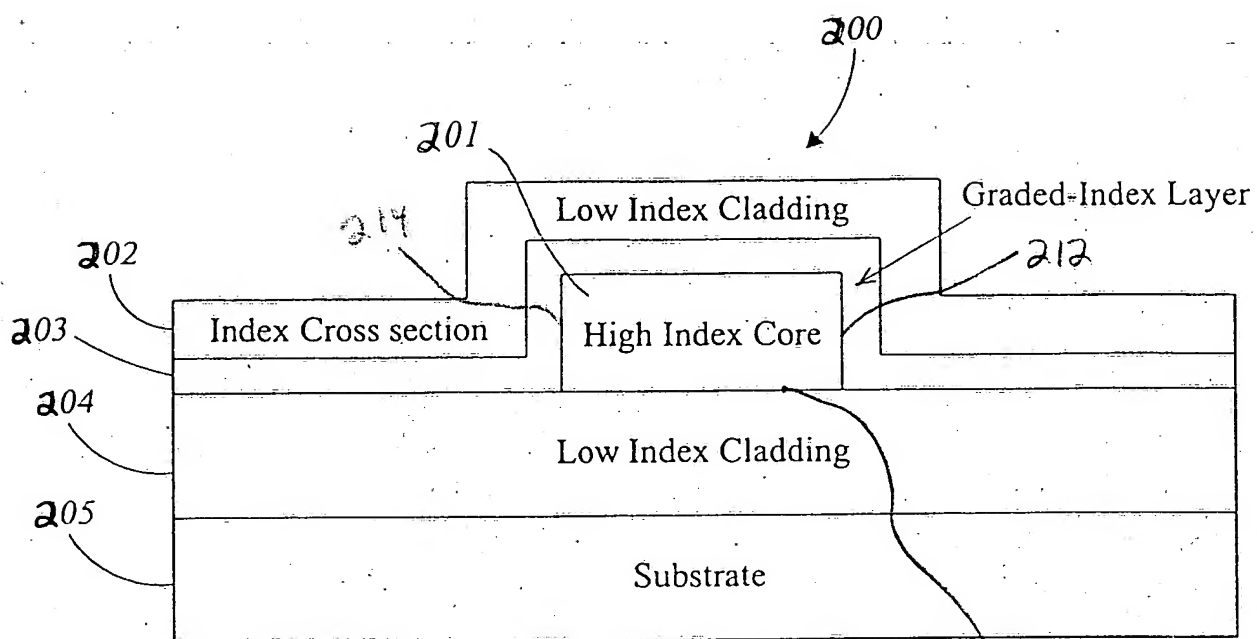


Figure 13

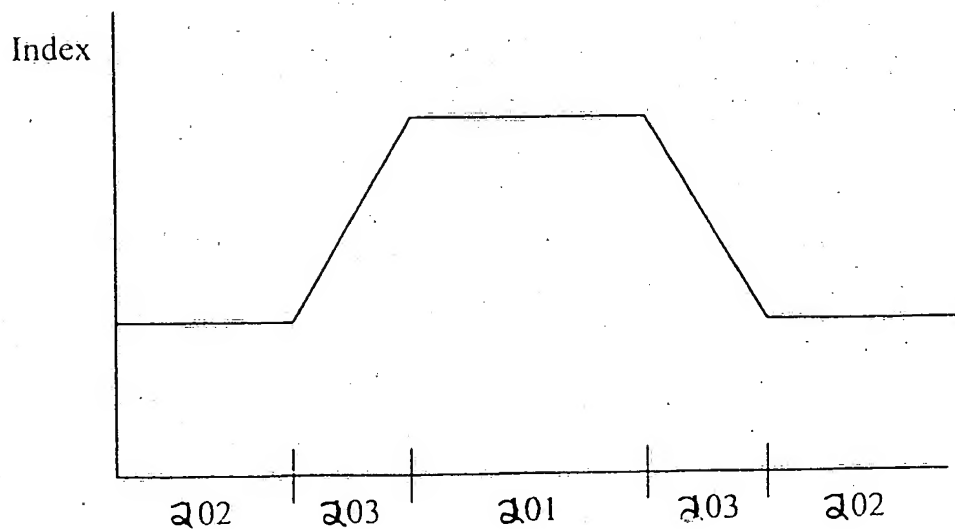


Figure 14

Low Index Cladding



Graded Index Layer
(High to Low Index)



High Index Waveguide Core/
Low Index Cladding/
Substrate

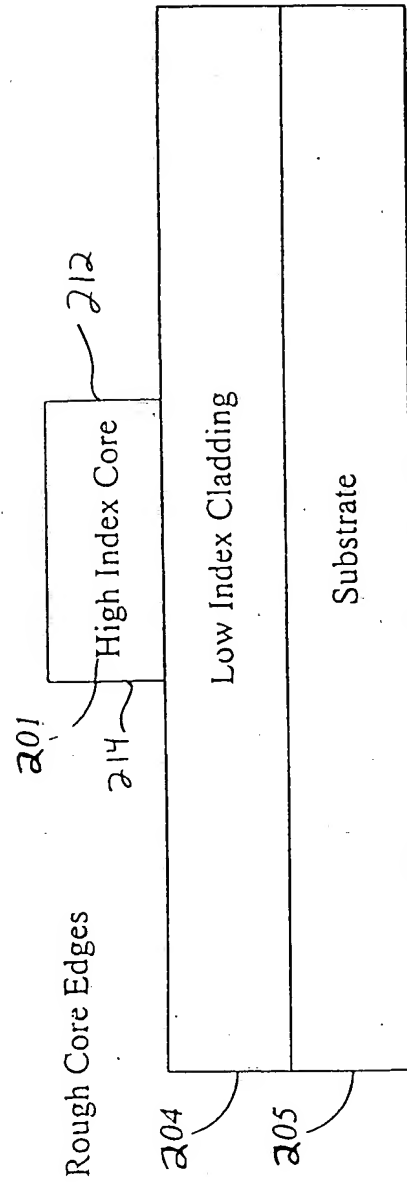


Figure 15

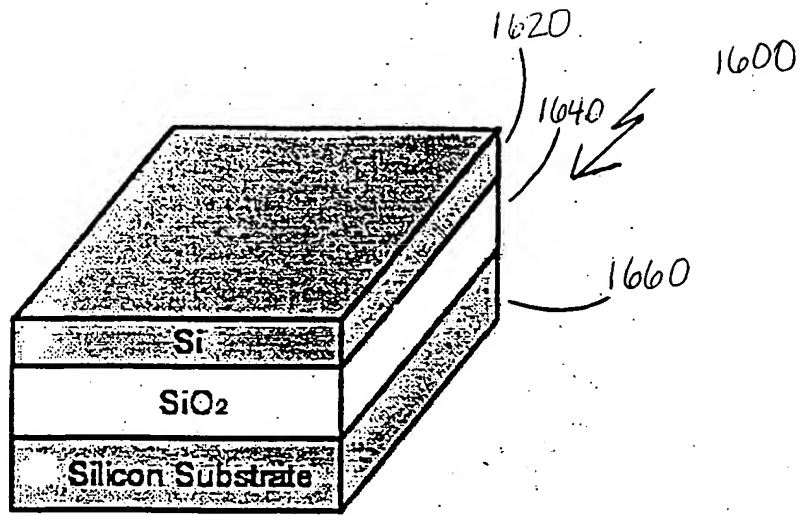


Figure 16

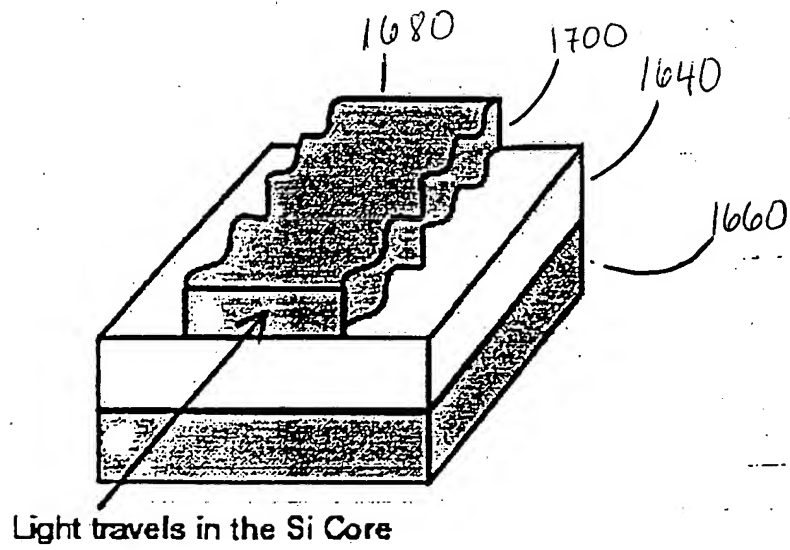


Figure 17

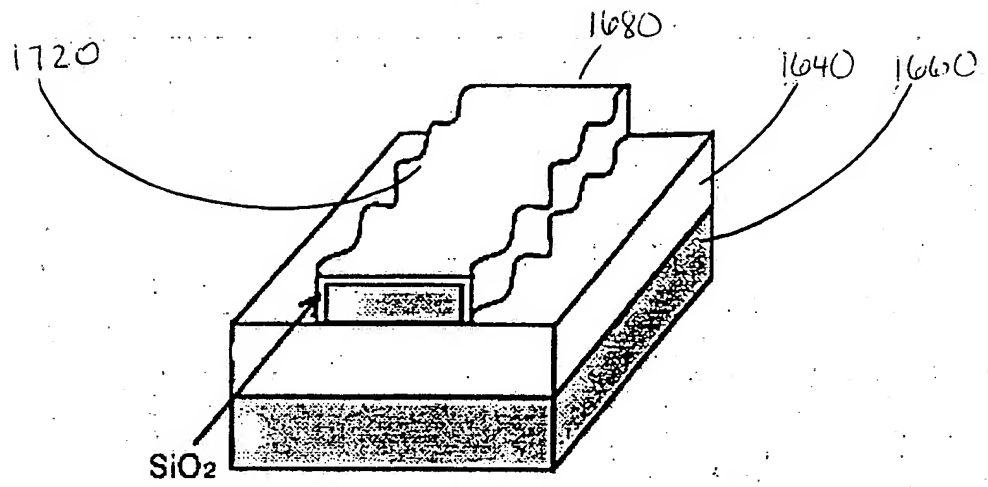


Figure 18

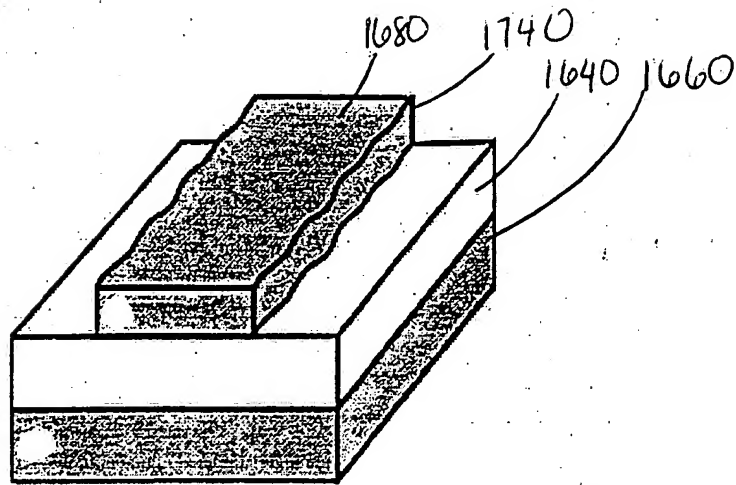


Figure 19

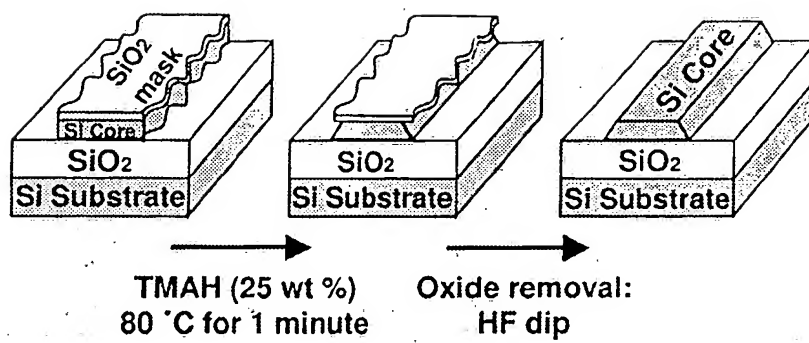


Figure 20.